

TITLE OF THE INVENTION

Reflection-Type Polarization-Independent Optical Isolator, Optical Isolator/Amplifier/Monitor, and Optical System

ABSTRACT OF THE DISCLOSURE

5 A variety of polarization independent optical isolators, including a single stage polarization independent optical isolator, a single stage broadband polarization independent optical isolator, a double stage polarization independent optical isolator, a double stage broadband independent optical isolator, and an optical isolator/monitor/amplifier, provide improved isolation characteristics and functionality. Optical systems are based upon input light traveling twice through the optical
10 isolator/monitor/amplifier, and upon input light traveling twice through the optical isolator/monitor/amplifier connected in cascade with a double stage broadband polarization independent optical isolator.